

IFM 2816

PTO/SB/21 (07-06)

Approved for use through 09/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

8

Application Number

10/065,967

Filing Date

12/05/2002

First Named Inventor

Yung-Huei Chen

Art Unit

2816

Examiner Name

RUBIN MARGARET R

Attorney Docket Number

VIAP0062USA

ENCLOSURES (Check all that apply)



Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)



Reply to Missing Parts/
Incomplete Application



Reply to Missing Parts
under 37 CFR 1.52 or 1.53



Drawing(s)



Licensing-related Papers



Petition



Petition to Convert to a
Provisional Application



Power of Attorney, Revocation



Change of Correspondence Address



Terminal Disclaimer



Request for Refund



CD, Number of CD(s) _____

Landscape Table on CD

Remarks

Request for Certificate of Correction of Office Mistake



After Allowance Communication to TC



Appeal Communication to Board
of Appeals and Interferences



Appeal Communication to TC
(Appeal Notice, Brief, Reply Brief)



Proprietary Information



Status Letter



Other Enclosure(s) (please identify
below):

1. A copy of the front page of Patent
2. A copy of the front page of priority document
3. Copies of the Combined Declaration and Power of Attorney

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name

North America Intellectual Property Corporation

Signature

Winston Hsu

Printed name

Winston Hsu

Date

OCT 19 2006

Reg. No.

41,526

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

Krystal Pan

Typed or printed name

Krystal Pan

Date

OCT 19 2006

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PTO/SB/17 (07-06)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).**FEE TRANSMITTAL**
For FY 2005☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) **0.00****Complete if Known**

Application Number	10/065,967
Filing Date	12/05/2002
First Named Inventor	Yung-Huei Chen
Examiner Name	RUBIN MARGARET R
Art Unit	2816
Attorney Docket No.	VIAP0062USA

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____☒ Deposit Account Deposit Account Number: **50-3105** Deposit Account Name: **North America Intellectual Property Corporation**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Small Entity	Fee (\$)	Small Entity	Fee (\$)	Small Entity	Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity	Fee (\$)
Each claim over 20 (including Reissues)	50	25	
Each independent claim over 3 (including Reissues)	200	100	
Multiple dependent claims	360	180	
Total Claims			
Extra Claims			
Fee (\$)			
Fee Paid (\$)			

- 20 or HP = _____ x _____ = _____

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**

- 3 or HP = _____ x _____ = _____

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	_____	_____	_____	_____

- 100 = _____ / 50 _____ (round up to a whole number) x _____ = _____

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): _____

SUBMITTED BY

Signature	<i>Winston Hsu</i>	Registration No. (Attorney/Agent)	41,526	Telephone	3027291562
Name (Print/Type)	Winston Hsu	Date	OCT 19 2006		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No. : US 6,937,688 B2
5 Issue date : 8/30/2005
Application No. : 10/065,967
Applicant : Yung-Huei Chen, et al.
Date Filed : 12/05/2002
TC/A.U. : 2816
10 Examiner : Rubin Margaret R
Confirmation No. : 3816
Docket No. : VIAP0062USA
Customer No. : 27765

15 Title: STATE MACHINE, COUNTER AND RELATED METHOD FOR GATING
REDUNDANT TRIGGERING CLOCKS ACCORDING TO INITIAL
STATE

To: Commissioner for Patents
20 P.O. BOX 1450
Alexandria, VA 22313-1450


Subject: Request for Certificate of Correction under 37 CFR 1.322

25 Dear Sir,

Upon reviewing the above-identified patent, patentee noted the foreign priority
number should be corrected (see Attachment 1, the front page of letters patent). The
prosecution procedure described below indicates this as an Office mistake of
30 consequence. As the agent of record, I hereby request that a Certificate of Correction
be issued under 37 CFR 1.322 to correct the foreign priority number from "TW
091173385" to "TW 091117385".

The examiner pointed out in the Office action dated 03/04/2004 that the filing number of the priority document submitted did not match the priority number cited in applicant's declaration. Actually, the filing number on the front page of priority document (Attachment 2) and the priority number cited in applicant's declaration (Attachment 3) were exactly the same. So in the response to Office action submitted on 05/26/2004, the applicant explained the pertinent fact and requested notification at the earliest possible convenience so that appropriate action could be taken. However, no further Office communication mentioned about priority problem. Then the Notice of Allowance dated 04/27/2005 was received. It was construed that the examiner had no objection against priority problem. The foreign priority number claimed by the applicant of above-identified patent should be TW 091117385.

Respectfully submitted,



Date: OCT 19 2006

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562

Facsimile: 806-498-6673

e-mail : winstonhsu@naipo.com

Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan.)



US006937688B2

(12) **United States Patent**
Chen et al.(10) **Patent No.:** **US 6,937,688 B2**
(45) **Date of Patent:** **Aug. 30, 2005**(54) **STATE MACHINE, COUNTER AND
RELATED METHOD FOR GATING
REDUNDANT TRIGGERING CLOCKS
ACCORDING TO INITIAL STATE**(75) **Inventors:** **Yung-Huei Chen, Taipei Hsien (TW);
Shan-Ting Hong, Taipei Hsien (TW)**(73) **Assignee:** **VIA Technologies Inc., Hsin-Tien
(TW)**(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 241 days.(21) **Appl. No.:** **10/065,967**(22) **Filed:** **Dec. 5, 2002**(65) **Prior Publication Data**

US 2004/0022347 A1 Feb. 5, 2004

(30) **Foreign Application Priority Data**

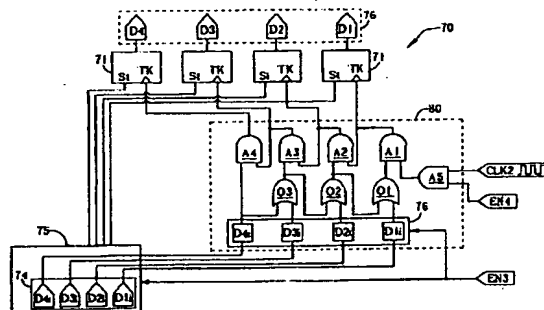
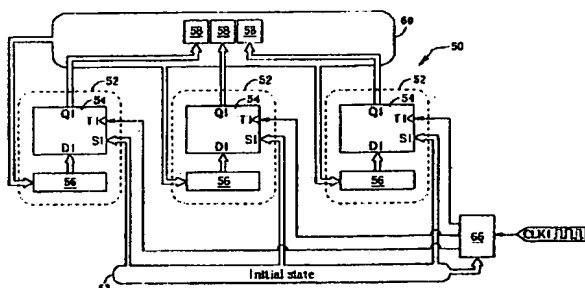
Aug. 1, 2002 (TW) 91173385 A

(51) **Int. Cl.⁷** **H03K 21/16**(52) **U.S. Cl.** **377/116; 377/28; 377/33;
377/34; 377/40; 377/104; 327/291; 327/295**(58) **Field of Search** 377/116, 104,
377/28, 33, 40, 34; 327/291, 295(56) **References Cited****U.S. PATENT DOCUMENTS**5,481,581 A * 1/1996 Jonas, Jr. 377/55
5,960,052 A * 9/1999 Bombal et al. 377/29
6,026,140 A * 2/2000 Owen 377/51

* cited by examiner

Primary Examiner—Margaret R. Wambach
(74) **Attorney, Agent, or Firm**—Winston Hsu(57) **ABSTRACT**

A state machine, a counter, and related method for gating redundant triggering clocks according to the initial states is provided. The state machine includes a plurality of state units and a clock gating circuit. Each of the state unit is triggered by a clock to generate a corresponding varying state, and the clock gating circuit is capable of selectively withholding a triggering clock to at least one state unit according only to an initial state, such that the selected state unit(s) will not be triggered by the triggering clock while the rest of the state units are triggered by the triggering clock to update their corresponding states.

10 Claims, 8 Drawing Sheets



中華民國經濟部智慧財產局

INTELLECTUAL PROPERTY OFFICE
MINISTRY OF ECONOMIC AFFAIRS
REPUBLIC OF CHINA

茲證明所附文件，係本局存檔中原申請案的副本，正確無訛，
其申請資料如下：

This is to certify that annexed is a true copy from the records of this
office of the application as originally filed which is identified here

申請日：西元 2002 年 08 月 01 日
Application Date

申請案號：091117385
Application No.

申請人：威盛電子股份有限公司
Applicant(s)

局長

Director General

蔡練生

發文日期：西元 2002 年 9
Issue Date

發文字號：09111017832
Serial No.



Attachment 3

PATENT
Docket no. VIAP0062USA

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

I believe I am the sole (if only one name appears below), or a joint (if more than one name appears), original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

"STATE MACHINE, COUNTER AND RELATED METHOD FOR GATING REDUNDANT TRIGGERING CLOCKS ACCORDING TO INITIAL STATE "

+ The specification for the above entitled invention is filed herewith.

 The specification for the above entitled invention was filed previously with application serial number: Filing Date:

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of the invention disclosed in this application in accordance with Title 37, Code of Federal Regulations, Section 1.56 (a). I further acknowledge the duty in any continuation-in-part application to disclose to the Patent and Trademark Office all information known to be material to the patentability of the invention disclosed in this application, as defined in 1.56, which became available to me between the filing date of the prior application and the filing date of this application.

PRIORITY CLAIM

 There is no claim of priority.

+ Claim of priority is based on the following:

Filing Date in Taiwan, R.O.C.: 2002/08/01
Filing No. in Taiwan, R.O.C.: 091117385

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorney to prosecute this application and to transact all related business in the Patent and Trademark Office:

Winston Hsu, Reg. No. 41,526 E-Mail: Winstonhsu@naipo.com.tw
Mord Michael Lewis, Reg. No. 50,478 Mikelewis@naipo.com.tw

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Merrifield, VA 22116
U.S.A.
TEL: +886-2-8923-7350

Combined Declaration and Power of Attorney, Page 1 of 2

DS2002CU0003451

F#NPO-P0001E-US

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued hereon.

Date: OCT. 21, 2002 Yung-Huei Chen
Printed Name: Yung-Huei Chen
Post Office Address: 8F, No.533, Chung-Cheng Rd., Hsin-Tien City,
and Residence: Taipei Hsien, Taiwan, R.O.C.
Citizen of: R.O.C.

Date: Oct. 29, 2002 Shan-Ting Hong
Printed Name: Shan-Ting Hong
Post Office Address: 8F, No.533, Chung-Cheng Rd., Hsin-Tien City,
and Residence: Taipei Hsien, Taiwan, R.O.C.
Citizen of: R.O.C.

Date: _____
Printed Name: _____
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